
Subject: [patch 1/1][NETNS][IPV6] protect addrconf from loopback registration

Posted by [Daniel Lezcano](#) on Mon, 12 Nov 2007 15:19:54 GMT

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The loopback is now dynamically allocated. The ipv6 code was written considering the loopback is allocated before the ipv6 protocol initialization. This is still the case when we don't use multiple network namespaces.

In the case of the network namespaces, ipv6 notification handler is already setup and active (done by the initial network namespace), so when a network namespace is created, a new instance of the loopback device, via dynamic allocation, will trigger a REGISTER event to addrconf_notify and this one will try to setup the network device while the ipv6 protocol is not yet initialized for the network namespace.

Because the ipv6 is relying on the fact that the loopback device will not trigger REGISTER/UNREGISTER events, I just protect the addrconf_notify function when the loopback register event is triggered.

In the case of multiple network namespaces, the usual ipv6 protocol initialization will be done after the loopback initialization with the subsystem registration mechanism.

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Signed-off-by: Benjamin Thery <benjamin.thery@bull.net>

```
net/ipv6/addrconf.c | 9 ++++++--
1 file changed, 7 insertions(+), 2 deletions(-)
```

Index: linux-2.6-netns/net/ipv6/addrconf.c

```
=====
--- linux-2.6-netns.orig/net/ipv6/addrconf.c
+++ linux-2.6-netns/net/ipv6/addrconf.c
@@ -2272,7 +2272,8 @@ static int addrconf_notify(struct notifi

switch(event) {
case NETDEV_REGISTER:
- if (!ldev && dev->mtu >= IPV6_MIN_MTU) {
+ if (!(dev->flags & IFF_LOOPBACK) &&
+ ldev && dev->mtu >= IPV6_MIN_MTU) {
    iddev = ipv6_add_dev(dev);
    if (!ldev)
        return notifier_from_errno(-ENOMEM);
@@ -2366,11 +2367,15 @@ static int addrconf_notify(struct notifi
/* MTU failed under IPV6_MIN_MTU. Stop IPv6 on this interface. */

case NETDEV_DOWN:
```

```
+ addrconf_ifdown(dev, 0);
+ break;
+
case NETDEV_UNREGISTER:
/*
 * Remove all addresses from this interface.
 */
- addrconf_ifdown(dev, event != NETDEV_DOWN);
+ if (!(dev->flags & IFF_LOOPBACK))
+ addrconf_ifdown(dev, 1);
  break;

case NETDEV_CHANGENAME:
```

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